Logic Circuit Diagram:

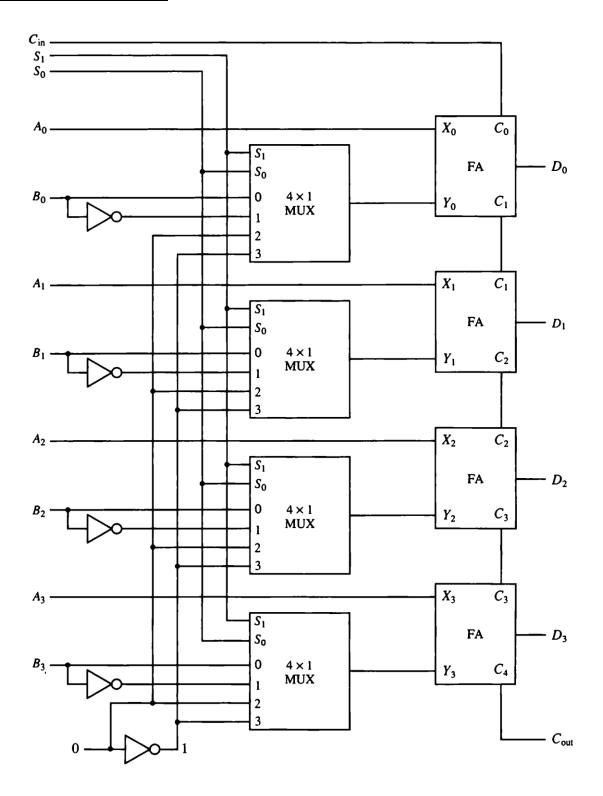


Fig: 4-bit Arithmetic Unit Logic Circuit Diagram